## **CLAIMS**

l	1.	Α	prostl	esis,	for	use within	a	hollow	body	structure	of	a	patient,	compris	sing
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a colled body having radially-extending openings formed therethrough, the body

movable from a radially-contracted state to a radially-expanded state;

a material extending along a coiled path along the entire coiled body; and

a dispensable, biologically active agent associated with at least one of the coiled body

and the material, said dispensable agent being dispensable into a hollow body structure of a

7 patient.

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2. The prostnessis according to claim 1 further comprising a delay-release material associated

with the dispensable agent to delay the release of the dispensable agent into the hollow body

structure.

3. The prosthesis according to claim 2 wherein the delay-release material comprises a

biodegradable, delay-release layer.

4. The prosthesis according to claim 1 wherein the dispensable agent is microencapsulated

using a biodegradable encaps lation material so as to delay migration of said drug from said

prosthesis

5. The prosthesis according to claim 1 further comprising removing a protective layer from

said chiled body and material there with so that when removed, said dispensable agent may

3 migrate\from said prosthesis.

6. The prosthesis according to claim 5 wherein the protective layer comprises a

2 biodegradable material so that said protective layer is removed when it biodegrades.

7. The prostness according to claim 5 wherein the protective layer comprises a sheath which

2 can be pulled off the coiled body and material there with to remove the protective layer

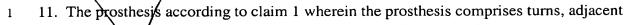
therefrom.

8. The prosthesis according to claim 1 wherein said body has longitudinally extending side

members and cross members connecting said side members.

9. The prosphesis according to claim 1 wherein said body is made of metal.

- 1 10 The prosthesis according to claim 1 wherein said prosthesis comprises spaced apart turns
- 2 defining gaps therebetween when in the radially-expanded state.



- ones of said turns touching one another when in the radially-expanded state.
- 1 12. The prosthesis according to claim 1 wherein the material comprises a coiled sleeve of
- 2 material having inner and outer surfaces, said inner surface defining a sleeve interior
- 3 containing the entire coiled body.
- 1 13. The prosthesis according to claim 12 wherein the agent is located at and is dispensable
- from at least the following location: on the outer surface of the material, the outer surface
- 3 being placeable against the hollow body structure when the body is in the radially-expanded
- state so the material may be located at and dispensable from only locations of intimate
- 5 contact with the hollow body structure.
  - 14. The prosthes's according to claim 12 wherein the agent is located at and is dispensable
- from at least the following location: incorporated into the material to create an agent/material matrix.
  - 15. The prosthesis according to claim 12 wherein the agent is located at and is dispensable
  - from at least the following location on the inner surface of the material.
- 1 16. The prosthesis according to claim 12 wherein the agent is located at and is dispensable
- 2 from at least the following location: within the sleeve interior.
- 1 17. The prosthesis according to claim 1 wherein the material has a radially-inwardly facing
- 2 inner surface and a radially-out ardly facing outer surface, and material surrounding the
- 3 body with said inner surface adjacent to the body and the outer surface placeable against the
- 4 hollow body structure when the body is in the radially-expanded state.
- 18. The prosthesis according to claim 12 wherein the agent is located at and is dispensable
- 2 from the outer surface of the material so to be located at and dispensable from only locations
- 3 of intimate contact with the hollow body structure.
  - 19. The prosthesis according to claim 1 further comprising first and second dispensable
  - agents.

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- 20. The prosthesis according to claim 19 wherein said first agent is layered on top of said
- 2 second agent.
- 1 21. The prosthesis according to claim 19 wherein said first agent is dispensable prior to the
- 2 start of dispensing of the second agent.
- 1 22. The prosthesis according to claim 19 wherein at least half of said first agent is
- 2 dispensable prior to the start of dispensing of the second agent.
- 1 23. The prosthes according to claim 1 wherein said material is a porous material.
  - 24. The prosthesis according to claim 23 wherein said porous material comprises porous
- 2 PTFE.
  - 25. The prosthesis according to claim 23 wherein said porous material has an inner surface which is substantially impervious to the passage of blood therethrough.
  - 26. The prosthesis according to claim 1 wherein the dispensable agent is selected from the
- group comprising: anti-inflammatory drugs, anti-thrombotic/anti-platelet drugs, antiproliferative drugs, apoptosis-inducing drug, light activated drug, and biological materials.
  - 27. The prosthesis according to claim 1 wherein the dispensable agent comprises an anti-
  - restenotic agent.
  - 28. A prosthesis, for use within a hollow body structure of a patient, comprising:
  - a coiled body having radially-extending openings formed therethrough, the body movable from a radially-contracted state to a radially-expanded state;
  - a coiled sleeve of material extending along a coiled path, the material having an inner surface and an outer surface and defining the sleeve interior containing the coiled body; and
  - a dispensable, biologically active agent on said outer surface of the material, said
- dispensable agent being dispensable into a hollow body structure of a patient.
- 1 29. The prosthesis according to claim 28 wherein the dispensable agent comprises an anti-
- 2 restenotic agent.
- 30. The prosthesis according to claim 28 further comprising a delay-release material
- associated with the dispensable agent to delay the release of the dispensable agent into the
- 3 hollow body structure.

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- 31. The prosthesis according to claim 28 wherein said prosthesis comprises spaced apart 1 turns defining gaps therebetween when in the radially-expanded state. 2
- 32. The prosthesis according to claim 28 wherein said material comprises porous PTFE. 1
- 33. A prosthesis, for use within a hollow body structure of a patient, comprising: 1 a coiled body having radially-extending openings formed therethrough, the body 2 movable from a radially-contracted state to a radially-expanded state; 3

a coiled sleeve of material extending along a coiled path, the material having an inner surface and an outer surface and defining the sleeve interior containing the coiled body; and a dispensable, biologically adtive agent incorporated into the material to create an

agent/material matrix, said dispensable agent being dispensable into a hollow body structure of a patient.

- 34. The prosthesis according to claim 33 wherein the dispensable agent comprises an antirestenotic agent.
- 35. The prosthesis according to claim 33 further comprising a delay-release material associated with the dispensable agent to delay the release of the dispensable agent into the hollow body structure.
- 36. The prosthesis according to claim 33 wherein said prosthesis comprises spaced apart turns defining gaps therebetween when in the radially-expanded state.
- 37. The prosthesis according to claim 33 wherein said material comprises porous PTFE.
- 38. A prosthesis, for use within a hollow body structure of a patient, comprising: a coiled body having radially-extending openings formed therethrough, the body movable from a radially-contracted state to a radially-expanded state;

a doiled sleeve of material extending along a coiled path, the material having an inner surface and an outer surface and defining the sleeve interior containing the coiled body; and a dispensable, biologically active agent on said inner surface of the material or within the sleeve interior, said dispensable agent being dispensable into a hollow body structure of a patient.

39. The prosthesis according to claim 38 wherein the dispensable agent comprises an antirestenotic agent.

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- 1 40. The prosthesis according to claim 38 further comprising a delay-release material
- 2 associated with the dispensable agent to delay the release of the dispensable agent into the
- 3 hollow body structure.
- 1 41. The prosthesis according to claim 38 wherein said prosthesis comprises spaced apart
- turns defining gaps therebetween when in the radially-expanded state.
  - 42. The prosthesis according to claim 38 wherein said material comprises porous PTFE.
    - 43. A method for delivering a biologically active agent to a target site within a hollow body structure of a patient, comprising:

delivering a coiled prosthesis to a target site within a hollow body structure of a patient, the prosthesis being in a radially-contracted state, the prosthesis comprising a coiled body having radially-extending openings formed therethrough, a material extending along a coiled path along the entire coiled body, and a dispensable, biologically active agent associated with at least one of the coiled body and the material;

radially expanding the prosthesis from the radially-contracted state to a radially-expanded state so to press the prosthesis against a wall of the hollow body structure; and releasing the agent into the hollow body structure.

- 44. The method/according to claim 43 further comprising selecting a prosthesis comprising a collect hody having longitudinally extending side members and cross members connecting said side members.
- 1 45. The method according to claim 43 wherein the radially expanding step is carried out with
- a prosthesis comprising spaced apart turns defining gaps therebetween when in the radially-
- 3 expanded state.
- 1 46. The method according to claim 43 wherein the radially expanding step is carried out with
- a prosthesis comprising turns which touch one another when in the radially-expanded state.
- 1 47. The method according to claim 43 further comprising selecting a prosthesis in which the
- 2 material comprises a coiled sleeve of material, said coiled sleeve of material having inner and
- outer surfaces, said inner surface defining a sleeve interior containing the entire coiled body.
- 48. The method according to claim 43 further comprising selecting a prosthesis in which the
- 2 agent comprises first and second dispensable agents.

- 1 49. The method according to claim 48 further comprising selecting a prosthesis having said
- 2 first agent layered on top of said second agent.
- 50. The method according to claim 48 wherein the releasing step is carried out so that at least
- a portion of said first agent is released prior to the start of release of the second agent.
- 51. The method according to claim 48 wherein the controllably releasing step is carried out
- so that at least half of said first agent is released prior to the start of release of the second
- 3 agent.
- 1 52. The method according to claim 43 further comprising selecting a prosthesis comprising
- 2 porous material as said material.
- 1 53. The method according to claim 52 wherein the selecting step is carried out by selecting a
- 2 prosthesis with said porous material comprising ePTFE.
  - 54. The method according to claim 52 wherein the selecting step is carried out by selecting a
    - prosthesis with said porous material has a surface which is substantially impervious to the
  - passage of blood therethrough.
    - 55. The method according to claim 43 further comprising selecting a prosthesis having a
  - delay-release material associated with the dispensable agent.
- 1 56. The method according to claim 55 wherein the selecting step is carried out by selecting a
- 2 prosthesis in which the delay-release material comprises a biodegradable, delay-release
- 3 material.
- 57. The method according to claim 55 wherein the selecting step is carried out by selecting a
- 2 prosthesis in which the delay-release material comprises a delay-release layer covering the
- 3 dispensable agent.
- 58. The method according to claim 55 wherein the selecting step is carried out by selecting a
- 2 prosthesis in which the delay-release material is a component of a matrix of the dispensible
- 3 agent and the defay-release material.
- 1 59. The method according to claim 55 wherein the selecting step is carried out by selecting a
- 2 prosthesis in which the delay-release material comprises a biodegradable polymer.

- 1 60. The method according to claim 55 wherein the delay-release material comprises a
- 2 protective layer, and further comprising removing the protective layer from the coiled body
- and material therewith thereby exposing the coiled body and material therewith.
- 1 61. The method according to claim 43 further comprising selecting a prosthesis comprising a
- dispensable agent selected from the group comprising: anti-inflammatory drugs, anti-
- thrombotic/anti-platelet drugs, anti-proliferative drugs, apoptosis-inducing drug, light
- 4 activated drug, and biological materials.
- 1 62. The method according to claim 3 further comprising selecting an anti-restenotic agent
- 2 as the dispensable agent.
  - 63. A method for delivering a biologically active agent to a target site within a hollow body structure of a patient, comprising:

delivering a coiled prosthesis to a target site within a hollow body structure of a patient, the prosthesis being in a radially contracted state, the prosthesis comprising a coiled body having radially-extending openings formed therethrough, a coiled sleeve of material extending along a coiled path, the coiled sleeve of material comprising inner and outer surfaces, said inner surface defining a sleeve interior containing the entire coiled body, and a dispensable, biologically active agent on the outer surface of the material;

radially expanding the prosthesis from the radially-contracted state to a radially-expanded state so to press the prosthesis against the wall; and

releasing the agent from the outer surface of the material and into the hollow body structure.

- 1 64. The method according to claim 63 further comprising selecting an anti-restenotic agent
- 2 as the dispensable agent.
- 1 65. The method according to claim 3 wherein the releasing step comprises temporally
- 2 controllably releasing the agent into the hollow body structure.
- 1 66. The method according to claim 63 wherein the radially expanding step is carried out with
- a prosthesis comprising spaced apart turns defining gaps therebetween when in the radially-
- 3 expanded state.
- 1 67. The method according to claim 63 further comprising selecting a prosthesis comprising
- 2 porous PTFE as said material.

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68. A method for delivering a biologically active agent to a target site within a hollow body structure of a patient, comprising:

delivering a coiled prosthesis to a target site within a hollow body structure of a patient, the prosthesis being in a radially-contracted state, the prosthesis comprising a coiled body having radially-extending openings formed therethrough, a coiled sleeve of material extending along a coiled path, the coiled sleeve of material comprising inner and outer surfaces, said inner surface defining a sleeve interior containing the entire coiled body, and a dispensable, biologically active agent incorporated into the material to create an agent/material matrix;

radially expanding the prosthesis from the radially-contracted state to a radially-expanded state so to press the prosthesis against the wall; and

releasing the agent from the agent/material matrix and into the hollow body structure.

- 69. The method according to claim 68 further comprising selecting an anti-restenotic agent as the dispensable agent.
- 70. The method according to claim 68 wherein the releasing step comprises temporally controllably releasing the agent into the hollow body structure.
- 71. The method according to claim 68 wherein the radially expanding step is carried out with a prosthesis comprising spaced apart turns defining gaps therebetween when in the radially-expanded state.
- 72. The method according to claim 68 further comprising selecting a prosthesis comprising porous PTFE as said material.
  - 73. The method according to claim 68 further comprising selecting a prosthesis in which the material comprises a coiled sleeve of material, said coiled sleeve of material having inner and outer surfaces, said inner surface opposite said coiled body, said inner surface defining a sleeve interior containing the entire coiled body.
    - 74. A method for delivering a biologically active agent to a target site within a hollow body structure of a patient, comprising:

delivering a coiled prosthesis to a target site within a hollow body structure of a patient, the prosthesis being in a radially-contracted state, the prosthesis comprising a coiled body having radially-extending openings formed therethrough, a coiled sleeve of material

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5	extending along a coiled pa	ath, the coiled sleeve of material comprising inner and outer
7	surfaces, said inner surface	e defining a sleeve interior containing the entire coiled body, and a
8	dispensable, biologically a	ctive agent on the inner surface of the material or within the sleeve
•	interior;	·

radially expanding the prosthesis from the radially-contracted state to a radially-expanded state so to press the prosthesis against the wall; and

releasing the agent from the inner surface of the material and into the hollow body structure.

- 75. The method according to claim 74 further comprising selecting an anti-restenotic agent as the dispensable agent.
- 76. The method according to claim 74 wherein the releasing step comprises temporally controllably releasing the agent into the hollow body structure.
- 77. The method according to claim 74 wherein the radially expanding step is carried out with a prosthesis comprising spaced apart turns defining gaps therebetween when in the radially-expanded state.
- 78. The method according to claim 74 further comprising selecting a prosthesis comprising porous PTFE as said material.
  - 79. A method for making a prosthesis for use at a target site within a hollow body structure of a patient comprising:
    - determining at least one therapy for a patient;
  - selecting a prosthesis suitable for said at least one therapy, said prosthesis comprising a coiled body having radially extending openings formed therethrough, a material extending along a coiled path along the entire coiled body, and first and second dispensable,
- biologically active agents for said therapy, said first and second agents being associated with
  at least one of said coiled body and said material; and
  - said selecting step being carried out so that at least some of said first agent is releasable at a target site within a hollow body structure of a patient prior to the start of the release of the second agent at the target site.
- 80. The method according to claim 79 wherein the selecting step is carried out by selecting a prosthesis with a porous material as said material.

- 1 81. The method according to claim 80 wherein the selecting step is carried out with the
- 2 porous material comprising ePTFE.
- 1 82. The method according to claim 80 wherein the selecting step is carried out by selecting a
- 2 prosthesis with said porous material having a surface which is substantially impervious to the
- 3 passage of blood therethrough.
- 1 83. The method according to claim 79 wherein the selecting step is carried out by selecting a
- 2 prosthesis having said first agent layered on top of said second agent.
- 1 84. The method according to claim 79 wherein said to selecting step is carried out so that
- said first agent is releasable or over a first period and said second agent is releasable over a
- second period, said first and second periods at least partially overlapping.
- 1 85. The method according to claim 79 wherein the selecting step is carried out by selecting a
  - prosthesis having a delay-release material associated with at least one of the first and second
- 3 agents.
  - 86. The method according to claim \$5 wherein the selecting step is carried out by selecting a
  - prosthesis in which the delay-release material comprises a biodegradable, delay-release layer.
  - 87. The method according to claim 79 wherein the selecting step comprises selecting a
- prosthesis comprising dispensable agents selected from the group comprising: anti-
- inflammatory drugs, anti-thrombotic/anti-platelet drugs, anti-proliferative drugs, apoptosis-
- 4 inducing drug, light activated drug, and biological materials.
- 1 88. The method according to claim 79 further comprising selecting anti-restenotic agents as
- 2 the dispensable agents.
- 1 89. The method according to claim 79 wherein the selecting step comprises selecting a
- 2 prosthesis in which the material comprises a coiled sleeve of material, said coiled sleeve of
- 3 material having inner and outer surfaces, said inner surface defining a sleeve interior
- 4 containing the entire coiled body, the selecting step being carried out with the agents being
- 5 releasable from at least one of the following locations: the outer surface of the material,
- 6 incorporated into the material to create an agent/material matrix, on the inner surface of the
- 7 material and within the sleeve interior.

- 90. The method according to claim 79 wherein the selecting step comprises selecting a
- 2 prosthesis comprising spaced apart turns defining gaps therebetween when in the radially-
- 3 expanded state.
- 91. A method for making a prosthesis for use at a target site within a hollow body structure
- 2 of a patient comprising:
- placing a length of a material in contact with a mixture of a carrier and a dispensable,
- 4 biologically active agent;
  - removing at least a substantial portion of the carrier from the mixture leaving said
- agent in contact with the material to create an agent-laden material;
  - combining the agent-laden material with a radially-expandable stent to create a
- 8 prosthesis suitable for use within a hollow body structure of a patient.
- 1 92. The method according to claim 91 wherein the placing step is carried out using a porous
- 2 material as the material.
  - 93. The method according to claim 92 wherein the placing step is carried out with the porous
  - material comprising ePTFE.
- 1 94. The method according to claim 92 further comprising selecting a length of porous sleeve
- 2 material as said porous material, said porous sleeve material comprising inner and outer
- surfaces, said inner surface defining a sleeve interior containing the entire stent following the
- 4 combining step.
- 1 95. The method according to claim  $\cancel{p}4$  wherein said placing step is carried out by placing
- 2 said mixture into said sleeve interior.
- 96. The method according to claim 95 wherein the selecting step is carried out using a sleeve
- 2 material having open ends, and the placing step comprises at least temporarily sealing one
- 3 said open end.
- 1 97. The method according to claim 91 wherein said removing step is carried out by draining
- 2 away excess amounts of said mixture and then at least partially drying said length of material.
- 1 98. The method according to claim 91 further comprising selecting an agent from the group
- 2 comprising: anti-inflammatory drugs, anti-thrombotic/anti-platelet drugs, anti-proliferative
- drugs, apoptosis-inducing drug, light activated drug, and biological materials.

- 1 99. The method according to claim 91 further comprising selecting an anti-restenotic agent
- 2 as the biologically active agent.
- 1 100. The method according to claim 91 wherein the combining step is carried out with a
- 2 prosthesis comprising spaced apart turns defining gaps therebetween when in the radially-
- 3 expanded state.

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